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The complete mitochondrial genome of an anhydrobiotic midge *Polypedilum vanderplanki* (Chironomidae, Diptera)

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Abstract

© 2015 Taylor & Francis In this work, we describe a complete mitochondrial genome of chironomid *Polypedilum vanderplanki*. In spite of unique ecology of this species, the larvae are able to survive years of complete desiccation; the circular mitochondrial genome keeps basic structure and consists of 13 protein-coding genes, 2 rRNA, and 22 tRNA genes, and has a total length of 16 060 bp. Low GC level, small regulatory region, and unusually high number and length of non-coding spacers are the main determined features.

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Keywords

Anhydrobiosis, desiccation resistance, mitochondrial genome, sleeping chironomid